Appln no. 09/676,620 Amendment dated July 20, 2005 Reply to Office Action of May 4, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

(previously presented) A heptanoic acid antimicrobial composition comprising:
 0.01 to 5 wt. % heptanoic acid; and
 greater than 60 wt. % of a freezing point depressant component comprising propylene
 glycol and glycerin.

2-5. (canceled)

- 6. (previously presented) The antimicrobial composition of claim 1, wherein the freezing point depressant component consists of a mixture of propylene glycol and glycerin.
- 7. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 32°F.
- 8. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 20°F.
- 9. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 10°F.
- 10. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 0°F.
- 11. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below -10°F.

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(original) The antimicrobial composition of claim 1, wherein the composition has 12. a freezing point of below -20°F.

14. (currently amended) The antimicrobial composition of claim 1, wherein the freezing point depressant component makes up greater than 65 wt. % of the total composition.

18. (currently amended) The antimicrobial composition of claim 1, wherein the freezing point depressant component makes up greater than 70 wt. % of the total composition.

(currently amended) The antimicrobial composition of claim 1, wherein the freezing point depressant component makes up greater than 75 wt. % of the total composition.

16-17 _17-18: (canceled)

(previously presented) A method for controlling mastitis in milk producing animals, the method comprising:

applying a heptanoic acid antimicrobial composition to a teat of a milk producing animal, wherein the heptanoic acid antimicrobial composition comprises:

0.01 to 5 wt. % heptanoic acid; and

greater than 60 wt. % of a freezing point depressant component comprising propylene glycol and glycerin.

(previously presented) The method of claim 19, wherein the antimicrobial composition is applied in environmental temperatures of below 40°F or is applied to the teat of the milk producing animal that will be exposed to environmental temperatures of below 40°F within 12 hours of the application.

(previously presented) The method of claim 20, wherein the environmental temperatures are below 30°F.

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22. (previously presented) The method of claim 26, wherein the environmental temperatures are below 20°F.

22. (previously presented) The method of claim 25, wherein the environmental temperatures are below 10°F.

13 - 14 24-27: (canceled)

28. (previously presented) The method of claim 19, wherein the freezing point depressant component consists of a mixture of propylene glycol and glycerin.

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(original) The method of claim 19, wherein the composition has a freezing point of below 32°F.

2 36. (original) The method of claim 19, wherein the composition has a freezing point of below 20°F.

30 31. (original) The method of claim 19, wherein the composition has a freezing point of below 10°F.

3\ 32. (original) The method of claim 19, wherein the composition has a freezing point of below 0°F.

33. (original) The method of claim 19, wherein the composition has a freezing point of below -10°F.

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37 34. (original) The method of claim 19, wherein the composition has a freezing point of below -20°F.

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35. (currently amended) The method of claim 15, wherein the freezing point depressant component makes up greater than 65 wt. % of the total composition.

36. (currently amended) The method of claim 16, wherein the freezing point depressant component makes up greater than 70 wt. % of the total composition.

3/2. (currently amended) The method of claim 1/2, wherein the freezing point depressant component makes up greater than 75 wt. % of the total composition.

38. (previously presented) The antimicrobial composition of claim 1, wherein the freezing point depressant component consists essentially of a mixture of propylene glycol and glycerin.

39. (previously presented) The method of claim 19, wherein the freezing point depressant component consists essentially of a mixture of propylene glycol and glycerin.

(previously presented) The antimicrobial composition of claim 1, further comprising rheology modifier, lanolin, surfactant, sequestrant, or mixture thereof.

43. (previously presented) The method of claim 19, wherein the composition further comprises rheology modifier, lanolin, surfactant, sequestrant, or mixture thereof.